

The Physiology Of Fungal Nutrition

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This volume provides a mechanistic basis to the subject of fungal nutrition, focusing on processes at the plasma membrane and describing the fate of nutrients entering the fungus. The major emphasis is physiological, but biochemical and molecular biological information has been drawn upon when appropriate. Synopsis.

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The nutrition of a vegetative fungal colony can be viewed as a web of interconnected processes. In this volume, the author provides a mechanistic basis to the subject, focusing on the processes at the plasma membrane, the modulating effects of the fungal wall, and the fate of nutrients entering the fungus.

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This chapter describes some basic aspects of fungal cell physiology, focusing primarily on nutrition, growth, metabolism in unicellular yeasts and filamentous fungi, and cell death. It considers the most common growth forms, the filamentous fungi and unicellular yeasts. Fungal growth involves transport and assimilation of nutrients, followed by their integration into cellular components, followed by biomass increase and eventual cell division or septation.

Introduction to Fungal Physiology - Fungi - Wiley Online ...

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Fungal physiology refers to the nutrition, metabolism, growth, reproduction and death of fungal cells. It also generally relates to interaction of fungi with their biotic and abiotic surroundings, including cellular responses to environmental stress.

Introduction to fungal physiology - Abertay University

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The superfluous bounty of nature after a time of scarcity is often somewhat embarrassing. Before 1947, not even a comprehensive review paper was available as a guide to the voluminous but scattered literature on fungal physiology. Then in this year appeared the second volume of The Fungi by Wolf and Wolf, in which an attempt was made to fill this gap.

Physiology of the fungi. - CAB Direct

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The nutrition of a vegetative fungal colony can be viewed as a web of interconnected processes. In this volume, the author provides a mechanistic basis to the subject, focusing on the processes at the plasma membrane, the modulating effects of the fungal wall, and the fate of nutrients entering the fungus. The major emphasis is physiological, but biochemical and molecular biological information has also been drawn upon when appropriate, to reflect the power of a multifaceted approach and further encourage such study. A comprehensive review of what is known about the more commonly studied fungal species is complemented by information on other fungi, to provide an indication of the diversity of nutritional processes which exist in the fungal kingdom.

The motivation for writing this book came the insights gained 10 years of teaching a are-quarter graduate level course in fungal physiology to students in botany, mycology, microbiology, and plant pathology at the ohio state university. during that period many excellent books were published on all facets of fungal physiology; they included monographs, symposium volumes, and long, ong treatises.

This is a text for fungal physiology courses with a nutritional emphasis, discussing fungal nutrition and its implications for growth, development, and metabolite production. Chapters on dormancy, germination, growth and reproduction, metabolism and protein synthesis are also included.

The Fungi provides a comprehensive microbiological perspective on the importance of fungi, one of the most diverse groups of living organisms. Their roles in the natural world and in practical applications from the preparation of foods and beverages to drug production, and their relationship with man, animals and plants are clearly described. The recent contributions of molecular biology to mycology and the development of molecular methods for the study of fungal ecology, pathology and population genetics are also covered. This invaluable work has been completely revised and updated. With new material relating to molecular biology, this new and highly successful title continues to be essential reading for students and researchers. New to the second edition: Modern classification Medical and veterinary mycology section Organelles and processes involved in hyphal growth Molecular methods in ecology and pathology Production of new drugs of fungal origin Question and answer sections Colour plate section Praise for the first edition: "An enjoyable way to survey the subject of modern mycology. We are fortunate to have this excellent textbook." --MYCOLOGIA "The text is beautifully written and an understanding and enthusiasm for this important group of organisms comes through on every page." --TRENDS IN MICROBIOLOGY

"This will improve undergraduate learning and promote a more integrated understanding of fungal biology. I will certainly use it in my teaching and am sure many others will do likewise." --NEW PHYTOLOGIST "The coverage is extensive and informative. I am very pleased to recommend this book to those who want to know and understand fungi." --BIODIVERSITY AND CONSERVATION

Fungi: Biology and Applications is a comprehensive, balanced introduction of the biology, biotechnological applications and medical significance of fungi. With no prior knowledge of the subject assumed, the opening chapters offer a broad overview of the basics of fungal biology, in particular the physiology and genetics of fungi. Later chapters move on to include more detailed coverage of topics such as proteomics, bioinformatics, heterologous protein expression, medical mycology, anti-fungal drug development and function, fungal biotechnology and fungal pathogens of economically important plants. Carefully structured, each chapter contains self-assessment exercises with answers included at the end of the book to enhance student understanding. * A comprehensive treatment of the medical and economic importance of fungi to everyday life * Chapters include revision sections and problems to reinforce key concepts * Invaluable for undergraduates taking a first course on fungal biology or mycology. * also of interest to those working within the field looking for an up-to-date introduction.

Ectomycorrhizae: Their Ecology and Physiology provides an overview of the state of knowledge and opinion on the physiological ecology of ectomycorrhizae, which may be defined as symbiotic associations between nonpathogenic or weakly pathogenic fungi and living cells of roots. Although the book places considerable emphasis on forestry aspects of mycorrhizal problems, its wide ranging subject matter cuts across the boundaries of a number of traditional plant sciences. The book begins with discussions of the structure, cytology, and morphogenesis of mycorrhizae; their classification; and their distribution in native and man-made forests. It then deals with the growth of ectomycorrhizal fungi around seeds and roots; nutrition uptake; and the role of hormones in mycorrhizal development. The remaining chapters cover the rhizosphere; the role of mycorrhizae in feeder root diseases and the mechanisms for their resistance; and applications of mycorrhizal relations in forest management. This book will be of interest to a wide variety of researchers and teachers, especially agronomists, biochemists, foresters, horticulturists, mycologists, plant pathologists, soil scientists, plant ecologists, plant physiologists, and microbiologists.

Typical life-cycle of fungi; Growth and variation; Nutrition; Respiration, fermentation and metabolic products; The effect of nutrition on sporulation; Other environmental factors influencing growth and sporulation; Factors influencing the survival and germination of spores; Interaction with other organisms.

Thoroughly revised, this edition summarizes the field of fungal physiology from a dynamic, experimental perspective. Integrates molecular genetics with biochemistry and development of fungi. Reorganized into 14 chapters it describes the latest contemporary experimental approaches to fungal research as well as future developments.

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